



Facilities Development Manual

ORIGINATOR Chief, Materials Management Section		PROCEDURE 14-1-10
CHAPTER 14	Pavements	
SECTION 1	General	
SUBJECT 10	QMP Ride	

Background

An inertial profiler is used to provide pavement smoothness feedback to the contractor and department. This information is used:

1. By the contractor to make adjustments in the paving process.
2. By the department to make pay adjustments based on the smoothness of the constructed surface.
3. By the contractor and department to locate areas that need correction.

Inertial profilers use non-contact sensors to collect profile data relative to an inertial frame of reference. These profilers measure the true pavement profile. Data is stored in an on-board computer for processing. Results can be viewed on-screen or printed.

The QMP Ride provisions require the contractor to measure the final pavement surface in each wheel path of each lane. The recorded data is used to establish the international roughness index (IRI) for each segment and identify locations requiring corrective action. A standard segment is 528 feet long by one wheel path wide. The IRI is reported in inches per mile.

Criteria for Inclusion of the QMP Ride Special Provision

Use on paving projects that contain HMA or concrete pavement bid items where the posted speed limit is 45 mph or greater. Do not include on projects that have less than one mile of associated paving work.

Payment

All costs for furnishing and operating the profiler, documenting profile results, and correcting the final pavement surface are incidental to either the HMA Pavement or Concrete Pavement bid items.

The provision does, however, include pay adjustment under the Incentive IRI Ride bid item 440.4410.S. The designer must calculate a pre-determined bid amount for this item to be pre-printed on the Schedule of Items. The actual amount of incentive paid to the contractor will vary from that bid amount, either up or down, depending on the constructed pavement smoothness. Use a pre-established unit price of \$1 in the schedule of items and a quantity based on \$2000 per lane mile.

